

Title (en)
SUSTAINED TYPE HUMAN GROWTH HORMONE PREPARATION

Title (de)
MENSCHLICHES HORMONWACHSTUMSPRÄPARAT MIT VERZÖGERTER FREISETZUNG

Title (fr)
PRÉPARATION D'HORMONE DE CROISSANCE HUMAINE DE TYPE DURABLE

Publication
EP 3689335 A1 20200805 (EN)

Application
EP 20166812 A 20140926

Priority
• KR 20130115177 A 20130927
• EP 14847086 A 20140926
• KR 2014009059 W 20140926

Abstract (en)
The present invention relates to a sustained type human growth hormone conjugate preparation comprising: a sustained type human growth hormone (hGH) conjugate resulting from conjugation between the immunoglobulin Fc region and a human growth hormone (hGH) constituting a bioactive peptide; a buffer solution; a nonionic surfactant; and a sugar alcohol. More specifically, the present invention relates to a sustained type human growth hormone conjugate freeze dried preparation and liquid preparation, to a production method for the freeze dried preparation, to a method of reconstituting the freeze dried preparation, and to a kit comprising the freeze dried preparation and a reconstituting solution.

IPC 8 full level
A61K 9/08 (2006.01); **A61K 9/19** (2006.01); **A61K 38/25** (2006.01); **A61K 38/27** (2006.01); **A61K 47/30** (2006.01); **A61K 47/68** (2017.01)

CPC (source: EP RU US)
A61K 9/0019 (2013.01 - EP US); **A61K 9/19** (2013.01 - EP RU US); **A61K 38/27** (2013.01 - EP RU US); **A61K 39/395** (2013.01 - RU); **A61K 47/12** (2013.01 - EP US); **A61K 47/183** (2013.01 - EP US); **A61K 47/26** (2013.01 - EP US); **A61K 47/68** (2017.08 - EP US); **A61K 47/6811** (2017.08 - EP US); **A61K 47/6883** (2017.08 - EP US); **A61P 5/06** (2018.01 - EP RU); **A61P 5/10** (2018.01 - EP)

Citation (applicant)
• KR 100567902 B1 20060404
• KR 100725315 B1 20070607
• WO 9734631 A1 19970925 - UNIV TEXAS [US], et al
• WO 9632478 A1 19961017 - GENENTECH INC [US]
• KR 100725315 B1 20070607
• H. NEURATHR. L. HILL: "The Proteins", 1979, ACADEMIC PRESS

Citation (search report)
• [I] WO 2012008779 A2 20120119 - HANMI HOLDINGS CO LTD [KR], et al
• [IP] WO 2013147559 A1 20131003 - HANMI SCIENCE CO LTD [KR]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3050559 A1 20160803; **EP 3050559 A4 20170531**; **EP 3050559 B1 20200603**; AR 097840 A1 20160420; AU 2014329003 A1 20160512; BR 112016006455 A2 20170801; CA 2925416 A1 20150402; CN 105848645 A 20160810; CN 114288254 A 20220408; EP 3689335 A1 20200805; HK 1225976 A1 20170922; IL 244769 A0 20160421; JP 2016533345 A 20161027; JP 6549104 B2 20190724; KR 102276304 B1 20210714; KR 20150035681 A 20150407; MX 2016003705 A 20160516; RU 2016113684 A 20171101; RU 2016113684 A3 20180628; RU 2683823 C2 20190402; TW 201605468 A 20160216; US 10987425 B2 20210427; US 2016213789 A1 20160728; US 2021138070 A1 20210513; WO 2015046974 A1 20150402

DOCDB simple family (application)
EP 14847086 A 20140926; AR P140103607 A 20140929; AU 2014329003 A 20140926; BR 112016006455 A 20140926; CA 2925416 A 20140926; CN 201480064028 A 20140926; CN 202210040339 A 20140926; EP 20166812 A 20140926; HK 16114361 A 20161216; IL 24476916 A 20160327; JP 2016518140 A 20140926; KR 2014009059 W 20140926; KR 20140129476 A 20140926; MX 2016003705 A 20140926; RU 2016113684 A 20140926; TW 103133464 A 20140926; US 201415025127 A 20140926; US 202017135468 A 20201228